

**MEC** Mangum  
Engineering  
Consultants

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388 East Boynton Road • Kaysville, Utah 84037 • (801) 544-3641

JUN 25 1991

Pamela Grubaugh-Littig  
Permit Supervisor  
Utah Division of Oil Gas & Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

DIVISION OF  
OIL GAS & MINING

24 June 1991

Pam,

Ref: Proposed Diversion Ditch (D-7D) Modification, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025, Emery County, Utah

During a recent on-site visit it was observed that during the enlargement of Sediment Pond A, the flow path of diversion ditch D-7D was altered. Attached is a copy of a partial plan of Plate 7-1C, showing the changes made during placement of the removed fill material. The Ditch has been rip-rapped using existing calculations and profile Plate 7-1C. All of the changes were made within the Disturbed Area Boundaries.

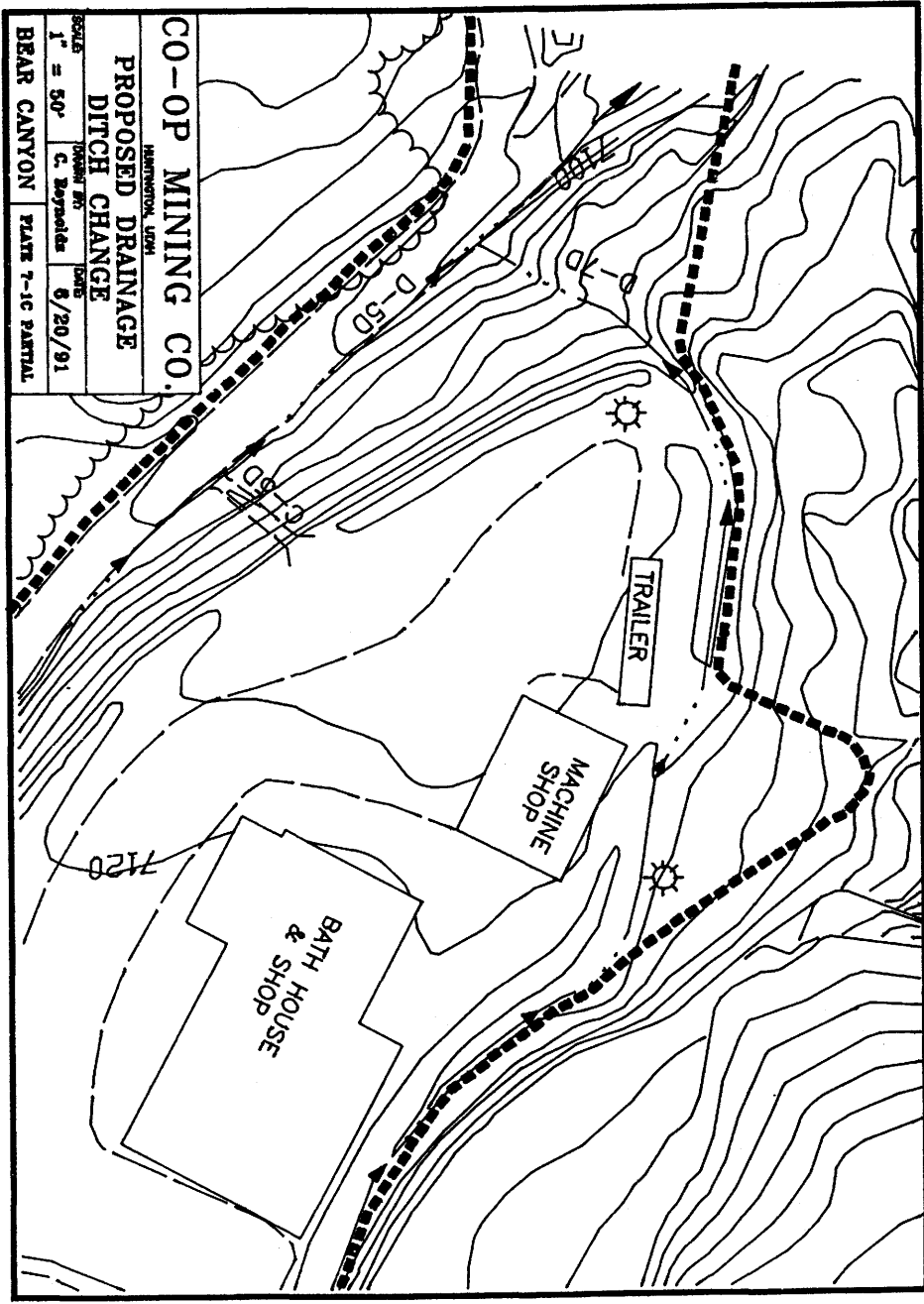
Because of this change it was decided to remove the strip between the shop pad and the D-5D Sed pond drainage road from the areas defined on Plate 8-5 as "non-reclamation areas within the disturbed boundary". This area covers 0.17 acres. Accordingly pages 3-39 and 8-21 have been modified and are attached for your review. Because of the excess built into the bonding calculations no additional plan changes were required. Upon approval the effected plates will be modified and four copies submitted to the Division. Plates 2-4b, 2-4C, 7-1B, 7-1C, 8-5B and 8-5C will be updated as indicated.

Thank you,



Kimly C. Mangum, P.E.  
Permitting & Compliance Consultant.

cc. Co-Op Mining Co.



### 3.5.1.1 Projected Impacts of Mining on Current and Future Land Use

The acreage disturbed for each activity described above are as follows:

Ball Park Topsoil Pile	1.28
Lower Haul Road	1.60
Sed Pond B & Scale House	2.55
Sed Pond A	0.61
Main Pad Area	9.51
Lower Portal Access Road	1.23
Portal Access Road	2.86
Upper Storage Pad	<u>0.61</u>
TOTAL	20.25

The management objectives and the impacts from the Bear Canyon Mine pertaining to these objectives are described in detail in Chapter 4.

Impacts. The reduction in desirable plant species caused by the disturbance will temporarily reduce forage production and wildlife capacities. The short-term negative impact of vegetation removal would be outweighed by the positive impacts of revegetation and improved fire protection and prevention.

Wildlife in the area will adapt to the operation in a relative short time as witnessed by existing coal operations. Proposed construction may temporarily disrupt wildlife if human disturbance

There are two existing topsoil storage areas on site that are shown on Plates 2-4, and two potential topsoil borrow areas shown on Plates 8-5. Each of these sites are discussed in the following sections and summarized in Section 8.7.5.

Table 8.7-1 Disturbed Area Summary

<u>Definition</u>		<u>Acres</u>
Disturbed Area Boundary *,**		22.4
Pre-1977 Disturbance **		27.3
Pre-1977 area w/in Disturbed Area Boundary		18.3
<u>Reclamation Areas *</u>		
<u>Mark</u>		
TS-1	Ball Park Topsoil Pile	1.28
TS-2	Lower Haul Road	1.60
TS-3	Sed Pond B & Scale House (includes topsoil pile 0.30 ac)	2.55
TS-4	Sed Pond A	0.61
TS-5	Main Pad Area	9.51
TS-6	Lower Portal Access Road	1.23
TS-7	Portal Access Road	2.86
TS-8	Upper Storage Pad	0.61
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TOTAL		20.25

Note: A total of 18.7 acres (subtracting the area of the Ball Park and Main topsoil piles) will require plant growth material.

\* See Plates 8-5.

\*\* See Plates 2-4

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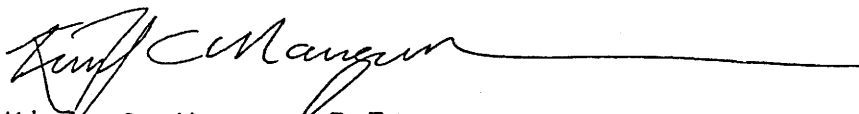
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